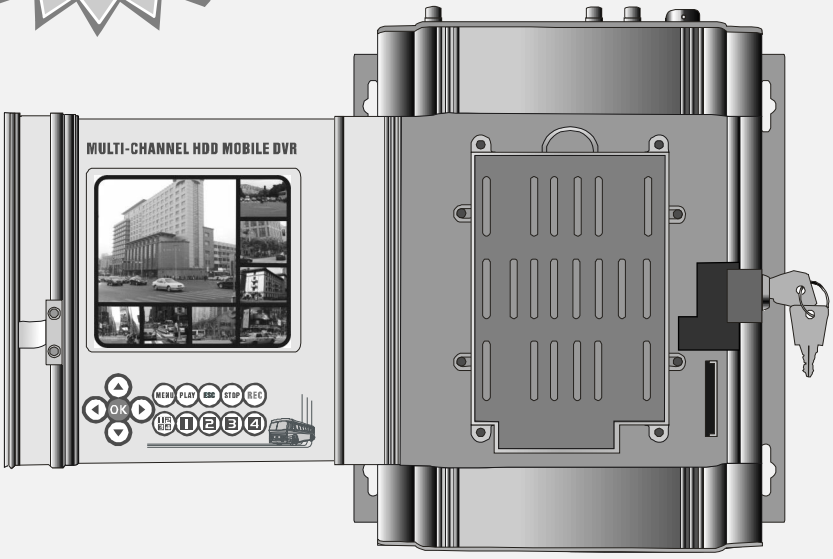
VR8808

8CH HDD&SD Card Mobile DVR

User Manual

4TB



VR8808 Series

- 3G
- GPS
- WIFI
- C-Box
- G-Sensor
- 3.5'' LCD

The instruction applies to the series of VR8808. Please read it carefully before using the products!

Instruction before use

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Attentions

- Make sure all parts including camera or other audio/video input device, hard drive, SD card, 3G Sim card etc, are connected correctly before you turn on the DVR
- Turn off the DVR whenever you need to remove or reconnect audio/video input devices;
- Turn off the unit whenever you need to remove or install the storage device such as hard drive or SD card;
- Do not touch the metal part of storage device to avoid damage to it caused by static electricity from human body;
- Keep the unit away from water or any other kinds of liquid;
- To ensure the DVR work properly, please donot simultaneously press two or more keys or operate multiple functions. Also, other similar illegal operations should be avoided too;
- The DVR can only be working properly within rated voltage and current range(input and output);
- As a professional equipment, the DVR should not be disassembled, repaired, upgraded or parts of it replaced without being agreed;
- For the professional equipment, regular maintenance to cable connection and storage device, fan dust removal and work environment testing are required;

Overview

The VR8808 series is a professional, 8–CH full D1, real time mobile surveillance equipment designed based on H.264 video compression technology, high performance and low power consumption. The series is with internal HD LCD display(built–in) for selection. It can be operated through panel keys, USB keyboard/mouse, IR remote control and network systems. The series supports large capacity storage devices of both hard drive(up to 4TB, SATA II interface) and high–speed SD card(up to 64GB); supports extended functions including GPS, WIFI, 3G and G–sensor etc.

GPS function: Users can get the data of longitude, latitude and speed from recorded video files in storage devices, and learn the driving route of the vehicle on Google map through professional player interface.

3G function : Free remote management platform software will be provided. Users can remotely monitor the image, and get the information of audio, alarm and vehicle running track displayed on Google map.

G–sensor(the gravity sensor technology): Users can learn the gravity sensor information during the process of driving by checking video data, and view the graph on player interface.

WIFI function: The VR8808 series supports wireless transmission for video, audio within the area where WIFI signal covers. Free user management software will be provided which enables Users view the video, audio and alarm information on management platform.

The VR8808 series is compatible with any CCD or CMOS cameras or other video input devices(PAL or NTSC). The series also supports LAN centralized platform monitoring, cloud service remote monitoring and mobile phone monitoring function.

Features

Real–time surveillance:

Audio/video output analog interface AV–OUT(CVBS signal) and standard VGA interface are equipped, so that the DVR can be connected to external monitor for real–time monitoring. Maximum output display resolution is 1440*900. The DVR supports 3G video transmission function, real time monitoring and tracking function on client–end platform.

Compression:

Adopts advanced H.264 video compression technology, and each channel?s audio&video are compressed independently and real time to make sure the audio and video saved simultaneously and the storage space occupied less.

Safety Storage
Supports up to 4TB SATA II interface hard disk and up to 64GB high speed SD card. Professional encryption format ensures authenticity and security of the saving data. Users cannot change the data afterwards.

Video Playback
Supports real time local playback function for all channels, and supports files search, events search, single channel playback, multiple channels playback, Selected channels playback, Videos could be played back with the special designed software, the software can play back the GPS data and moving path on google maps, users can also back up the videos via the special player, showing the G–Sensor curve graph on player. Support play back via network.

Data back up
Users can back up the videos via USB 2.0 port, the USB back up device could be USB flash drive, removable HDD, USB–DVDRW, supports back up via playback software and network, when there are several storage devices, users can set one storage devices as redundancy disk to back up the videos.

Alarm function
DVR support motion detect, video blind, video loss, 4 channels alarm inputs and abnormal detect function, support linkage recording, showing message on screen, buzzer, taking snapshot; can send snapshots via E–mail or upload snapshots via FTP; Support one channel relay alarm output switches, and a pair normal open or normal close control port.

Network function
DVR support remote view via web browser in LAN, With central monitoring platform in LAN, Support Cloud service and mobile monitor function.

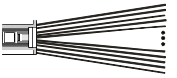
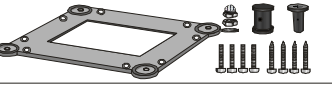
Human–based management
DVR support multi users and passwords login management style, support 14 species of languages, support USB mouse and keyboard operation modes, with RS485 port, with PTZ function, can import and export the parameter configurations for volume settings and managements, with system log function for checking and managing the device easier, can show the stream data for all channels, easier for user to choose the storage device with appropriate capacity, support regular maintenance function, support multi–devices central monitoring management in LAN.

Characteristics design
DVR adopts 6 groups of power supply system and special cooling system design to ensure the whole system operates stably with high efficiency, device adopts modularized design philosophy, easy to add optional functions such as GPS, G–Sensor, Wi–Fi. DVR adopts the philosophy of driving direction trigger the corresponding channel?s full screen display, DVR adopts whole aluminum alloy ultrathin housing, with anti–theft screw and security protection panel to protect two SD Cards` Slots.

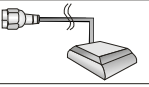
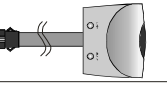
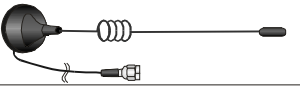
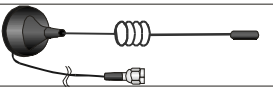
Contents of package

Basic Accessories

No.	Accessories	No.	Accessories
1	One DVR	5	One IR remote
2	Two sets of AV in/out cable	6	Two keys

No .	Accessories	No .	Accessories
3	One combined control wire 	7	One CD for manuals and software
4	One Power cable with fuse	8	Four Anti-vibration kits 

Optional Accessories

No .	Accessories	No .	Accessories
1	One GPS Antenna 	4	One C-BOX(3meters long) 
2	One external 3G antenna 	5	One printed paper user manual
3	One external WIFI antenna 	6	Storage device(Hard disk or SD card)

Notes: Optional accessories provided as per the functions customers selected.

Applications

The VR8808 series is a professional 8ch full D1 mobile surveillance equipment that adopts Linux imbedded operation system. It adopts h.264 compression technology, supports both HDD and SD card as storage devices with extended functions of internal LCD, GPS, WIFI, G-sensor, 3G optional.

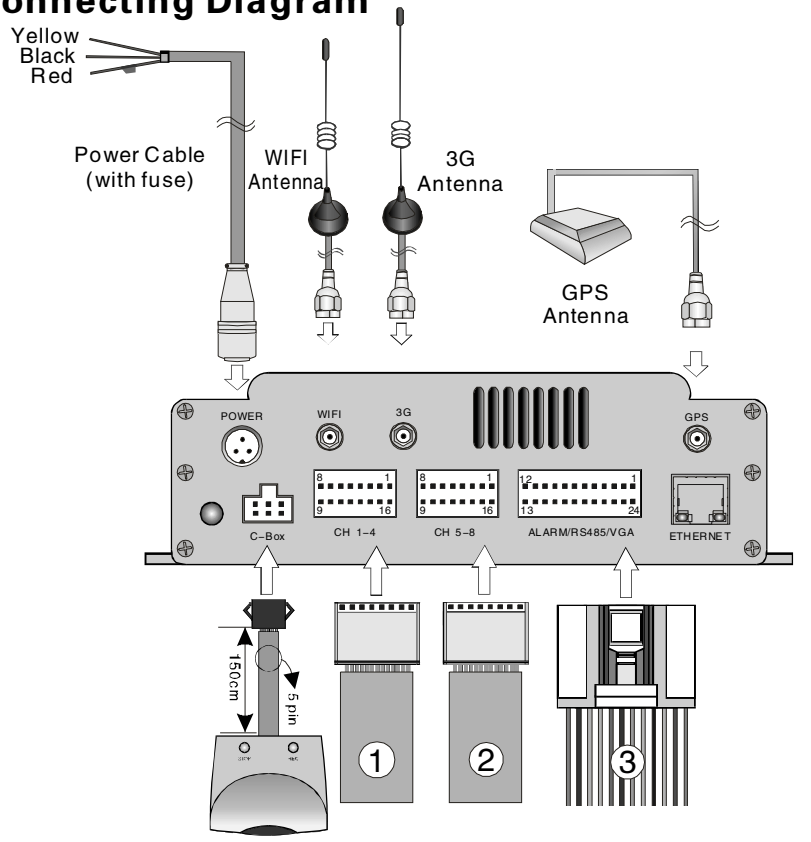
This device applicable for buses, taxi cabs, ships, vans, trains, etc. it is also applicable for the surveillance in fixed places such as offices, factories, home, buildings.

Technical Parameters

Item	Parameter Details	
Model	VR8808N	Basic funcion (eg.recording, playback, ALARM, RS485, USB, RJ45)
	VR8808	With 3.5" LCD
	VR8808G	With 3.5" LCD, GPS
	VR8808W	With 3.5" LCD, WIFI
	VR8808GW	With 3.5" LCD, GPS, WIFI
	VR8808-3G	With 3.5" LCD, GPS, 3G
	VR8808-3GW	With 3.5" LCD, GPS, WIFI, 3G
	Note : all models above can support G-Sensor and C-BOX !	

Power supply	Car battery (mobile monitor) /power adapter (other monitor platform)	
Power input	DC12V ~ DC36V (standard power: DC12V or DC24V, limited power: DC8V ~ DC38V)	
Maximum Current	Mode	Ireference voltage:DC24V
	VR8808N	250±10 mA
	VR8808	300±10mA
	VR8808G	320±10mA
	VR8808W	350±10mA
	VR8808GW	370±10mA
	VR8808-3G	400±10mA
	VR8808-3GW	420±10mA
Power output	No power output interface	
Woring tempreture	- 10℃ ~ +50℃ (limitation: -20℃ ~ + 60℃)	
compression format	H.264	
Storagte port	SATA II HDD interface、SD card and USB device (U disk/USB mobile HD/USB-DVD etc.)	
Storage capacity	2.5 SATA II 4TB HDD/64GB SD/SDHC Card (Class6 or above SD card be suggested to used.)	
Store mode	Overwrite/Stop when full	
camera	CCD and CMOS	
TV standard	PAL and NTSC (all the cameras`TV standard must be same)	
Video input	Input range:Vp-p=1.0V,impedance input:75Ω	
Resolution	realtime synchronization for 8 channels halfD1; Non-realtim synchronization for 8 channels D1; Realtime synchronization for 8 channels CIF/QCIF,Realtime synchronization for 4 channels D1, support playback at the same time	
Video frame rate	PAL (1 ~ 100FPS optional) & NTSC (1 ~ 120FPS optional)	
Output signal	CVBS (8ch video + 8ch audio, but only support 1ch audio output at a same time)	
Network port	One 10M/100M Ethernet port (RJ45)	
Alarm input	8ch alarm input port (isolating function)	
Alarm output	1ch relay alarm output, support 1ch normal open&closed contact	
USB Standard	2 USB 2.0 port (Support USB mouse/Key board operation mode, support USB backup)	
IR receiver	3 IR receiver terminal (at the back of LCD, aside USB port, C-BOX)	
mainframe size	210 (Length) *180 (Width) *50 (Height) mm	
Mainframe weight	Around 950g	

Connecting Diagram



1.CH 1–4 & AV–OUT Ports:

8	7	6	5	4	3	2	1
VIDEO–4	GND	VIDEO–3	VIDEO–2	GND	VIDEO–1	GND	VIDEO–OUT
9	10	11	12	13	14	15	16
AUDIO–4	GND	AUDIO–3	AUDIO–2	GND	AUDIO–1	GND	AUDIO–OUT

2.CH 5–8 & reserved ports for future talkback function:

8	7	6	5	4	3	2	1
VIDEO–8	GND	VIDEO–7	VIDEO–6	GND	VIDEO–5	GND	MIC–IN/NC
9	10	11	12	13	14	15	16
AUDIO–8	GND	AUDIO–7	AUDIO–6	GND	AUDIO–5	GND	AUDIO–OUT/NC

3.ALARM, RS485 & VGA Expansion ports: (AL==ALARM)

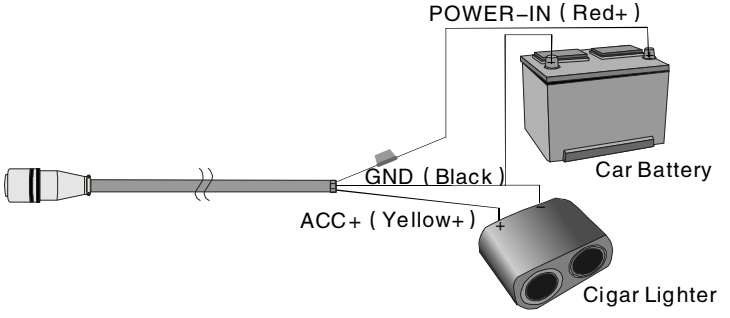
12	11	10	9	8	7	6	5	4	3	2	1
VGA–HS	VGA–VS	GND	VGA–BLUE	VGA–GREEN	VGA–RED	GND	UART–Tx	UART–Rx	GND	RS485B	RS485A
13	14	15	16	17	18	19	20	21	22	23	24
ALARM–OUT1	ALARM–OUT2	ALARM–OUT3	GND	ALARM–IN8	ALARM–IN7	ALARM–IN6	ALARM–IN5	ALARM–IN4	ALARM–IN3	ALARM–IN2	ALARM–IN1

Definitions and descriptions of ports:

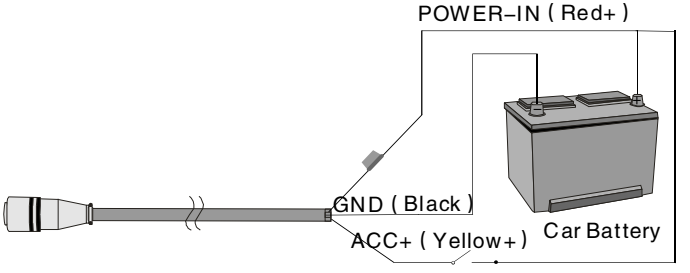
- VIDEO1–8: Video input ports;
- AUDIO1–8: Audio input ports;
- VIDEO–OUT: Video output ports,AUDIO–OUT: Audio output ports the ports are suitable to connect with TV/AV monitor with high resolution which upmost output resolution is 1440*900;
- MIC–IN/ reserved & AUDIO–OUT/reserved: intercom function port;
- ALARM–OUT1 & ALARM–OUT2: normal open control contacts of relay for alarm output port; ALARM–OUT 1 & ALARM–OUT3: normal closed control contacts of relay for alarm output port;
- RS485A & RS485B: PTZ control ports;
- UART–TX &UART–RX : GPS module port; when there is build–in gps module,this port cannot be used again, the baud rate of build–in gps module is 9600;
- VGA–HS、VGA–VS、VGA–BLUE、VGA–GREEN、VGA–RED: Expand VGA connection for reserved port: respectively for VGA line scan signal, VGA field scan signal,VGA blue,VGA green,and VGA red.(the VGA extension port is just suitable for senior professional user,it is not suggested to be used by ordinary);
- ALARM1–8: alarm input ports, support NO/NC switch control signal and high/low level control signal. (DC 0.7V < high level <DC 12V, low level< DC 0.6V) ;
- For C–box connecting, it can be operated normally only when abtaining VR8800 system permission;
- GND: The common ground port

Startup control mode:

1、Auto switch on/off start up mode, applicable for vehicles.



2、Manually switch on/off control mode, applicable for the use in fixed places.



Notes: ACC+ Cable is the device startup control wire, effective when triggered by high level, usually works with the car cigarette lighter.

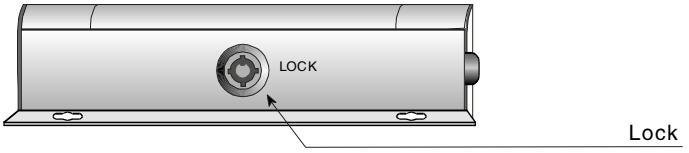
3、Attentions:

1)、As there are many control ports for the DVR, so we do not use the special designed terminal for each port, Please use the insulating tape to bind up, in case the short circuit with other wires occurs;
2)、The power indicator will light up (in blue) when the power is input;
3)、After the DVR connecting power supply, the ACC+ also need to connect to the power, or the device can not start up;
4)、the main function of C-BOX is for receiving controller signal and showing dvr working status;
5)、the cable of C-BOX can up to 3 meters.

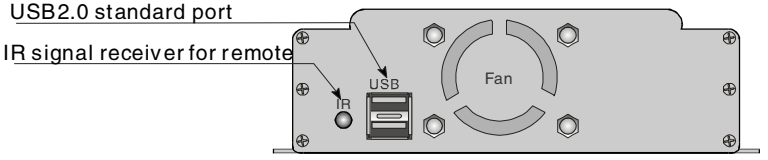
DVR Interface explanation

1、Interface

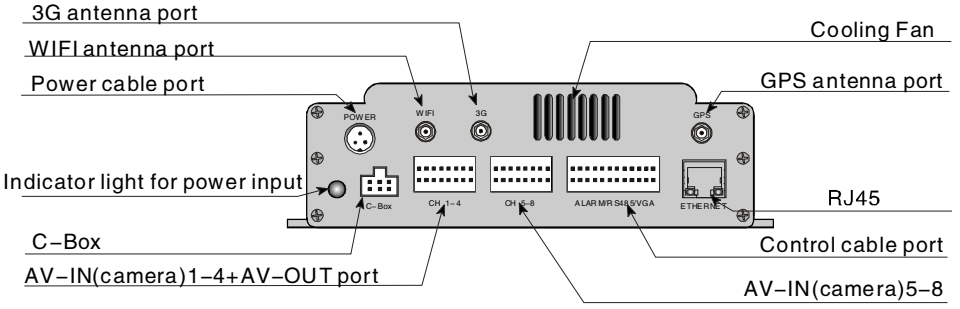
1)、Lock



2)、Side Panel 1



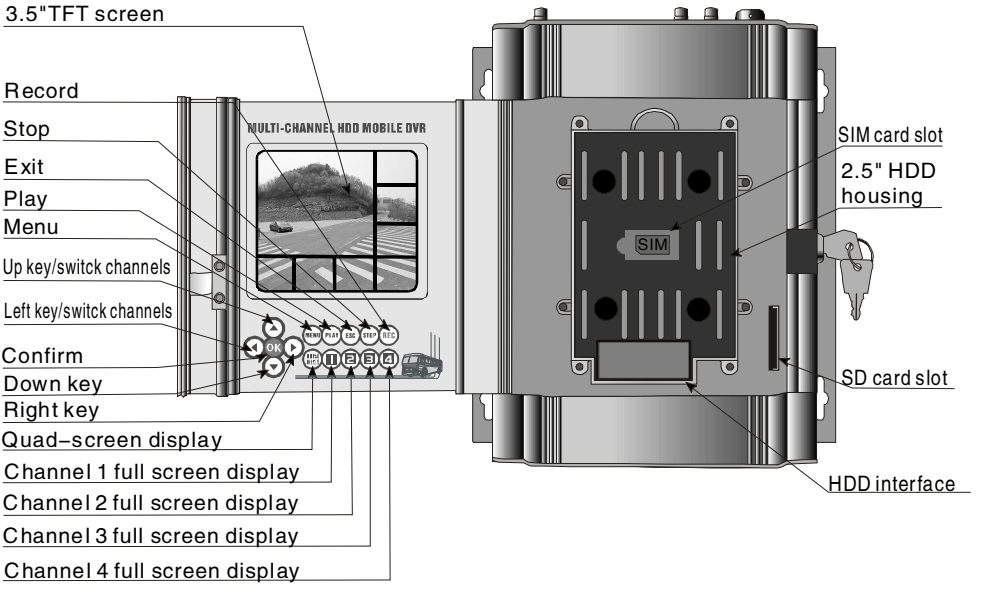
3)、Side Panel 2



Notes:

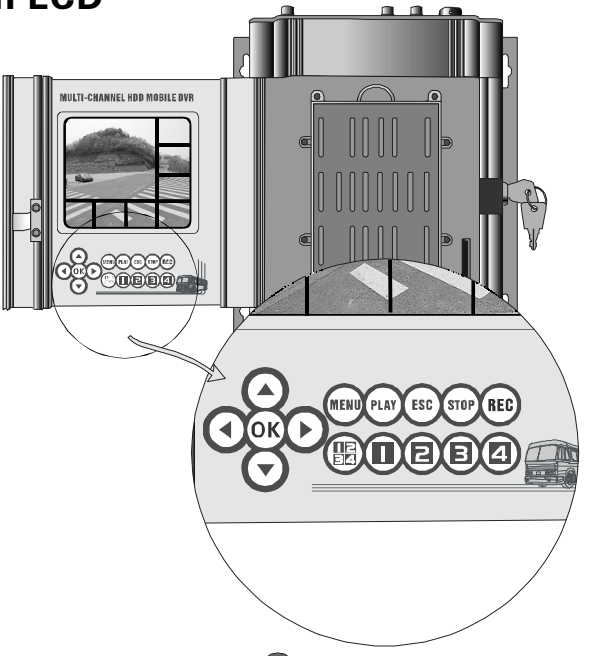
1)、Illustrate ofsilk ?screen on side panel is just for reference,takes actuals for the standard
2)、the unused port will be filled with rubber stopper because different function for optional.
3)、pls distinguish with all antenna,including gps,3g,wifi to avoid wrong connecting.
4)、the meterial of CH1-4 and CH5-8 is similar,details depend on related colour;
5)、AV-OUT function is related with the port of CH1-4;
6)、on the botton of dvr mainframe there is corresponding deffinition of all ports,client can operate it according to these guide.

4）、dvr Inner port



Notes:
It should be operated according to related label tips for dvr installation, specially for the installation of3g sim card, sd card and HDD port .

Botton on LCD



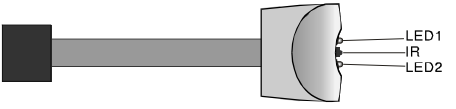
IR remote control

- Record
- Menu
- Confirm
- Play
- Stop Record
- Upward key/Video channels shift button
- Downward key/Video channels shift button
- Left side key/ Video channels shift button
- Right side key/ Video channels shift button
- Rewind
- Fast forward
- Ch1 full screen display
- Ch2 full screen display
- Ch3 full screen display
- Ch4 full screen display
- Ch5 full screen display
- Ch6 full screen display
- Ch7 full screen display
- Ch8 full screen display
- Display all channels in preview mode
- PTZ function
- PTZ zoom out
- PTZ zoom in

Notes: All the functions only work after get the permission to access the DVR.

C–Box

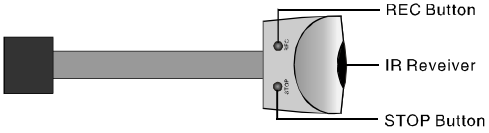
Model1:



Notes:

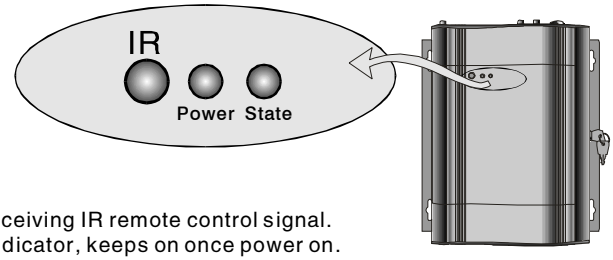
1. the middle of C–BOX is for IR signal receiving from remote controller
2. he indicator light of LED2 is used for showing status of storage device;light is off for no any related device,it keeps on when detect storage device;when the light flash,the dvr is recording.
3. The light of LED1 is used for indicate of wrong information alarming;when video input signal lost,the light will be flashing.

Model2:



1. REC: Start recording;
2. Stop: Stop recording;
3. IR receiver: Receiving IR signal from remote controller.

Indicators

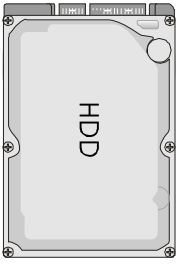


IR –– IR receiver, receiving IR remote control signal.
Power–– Working indicator, keeps on once power on.
State–dvr status indicator:keeps on when working,flashing slowly when recording.

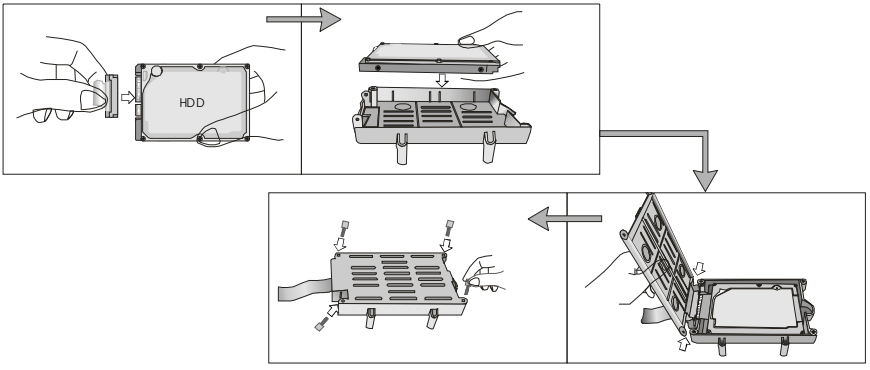
Storage device installation

Attentions before installation:
main panel of system and hard disk is composed of many integrated circuit component, integrated chip, etc,And these electronic parts is easy to be damaged by the electrostatic effect, therefore pls be sure to takes the following measures before HDD install:

1)、dvr should be power off before hard disk installing;
2)、To prevent HD damage by electrostatic,it can use electrostatic ring before take the hard disk, in addition,You can also touch things or metal objects which connected to ground wire, eg power shell, Metal faucet etc.
3)、Pls insert ortake out device after power off,eg.hard disk,sd card.
4)、Do not use hard disk as a storage device in shaken strongly/ dusty place.



Steps to install hard disk:



STEP ONE: Unlock the DVR with the key, open the DVR cover(with LCD and buttons on it), and then twist off the four screws on the hard disk case;
STEP TWO: Take out the upper cover of the HDD case, connect the hard disk to the SATA interface of the HDD ribbon cable and then put back to the HDD bay;
STEP THREE: Place back the cover of the HDD case, tighten the four screws but not too hard so that proper room will be remained for the hard disk.

Notes:

①For newly installed SD Cards, the DVR will format them automatically. If the storage device can not support recording, please enter into the menu and set the installed storage device as "Read/Write"disc. If user wants to save the snapshot triggered by alarm, please set the storage device as "snapshot" disc. If user wants to use the redundant back up function, please set the storage device as "redundant" disc.

②If user needs to use SD Card or USB device to save the recordings, please tick "SD Card record" and "USB record" in the sub menu "Record Config", and then restart the system.

③ If user wants to use USB device to back up the video files, please cancel the "USB record" option in menu firstly, or the system will regard the USB as storage device and will format it after DVR starting.

Memory occupancy calculation

When you install the 8ch HDD/SD card mobile DVR for the first time, please check if any hard disk/ SD Card is installed. And check the write protect switch(if with SD card), Otherwise, the video files cannot be recorded into the SD Card properly.

Maximum capacity of the memory storage device supported:

The VR8808 series of 8CH mobile DVR supports SATA II hard disk up to 4TB and maximum 64GB high capacity SD card. Users can choose the appropriate memory storage accordingly.

How to choose HDD/SD Card`s capacity?

Formula for Storage space occupation:

Total storage capacity (M) = numbers of channels (CH) * required time (H) * occupied capacity per hour (M/H)

Formula for recording time:

Recording time (H) = Total storage capacity (M) /【numbers of channels (CH) * occupied capacity per hour (M/H) 】

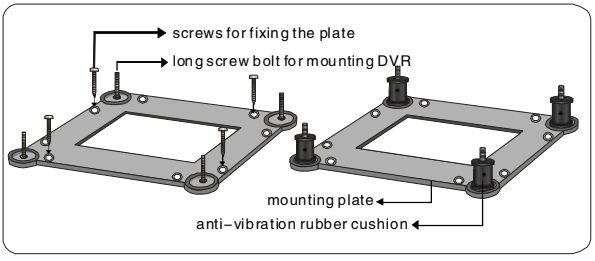
Please notes: The VR8808 Series products adopt H.264 compression technology, with comparatively wide dynamic range, and different video input devices will affect the bit stream statistics obviously. So when users calculate the parameters above, please refer to all channels` bit stream info in menu, to make sure the calculation as accurate as possible. That will assist users to choose more appropriate storage devices.

For instance:

The user uses a standard hard disk of 500GB/SATA II, and set 8ch recording at half D1/25FPS (full real time high quality recording). Each single channel needs around 150MB capacity per hour, the recording time of 8ch real time high quality recording will be: 500GB / (150 M/B x 8CH) ≈417hours(8hrs/day x 52 working days or 24hours/day x18 working days).

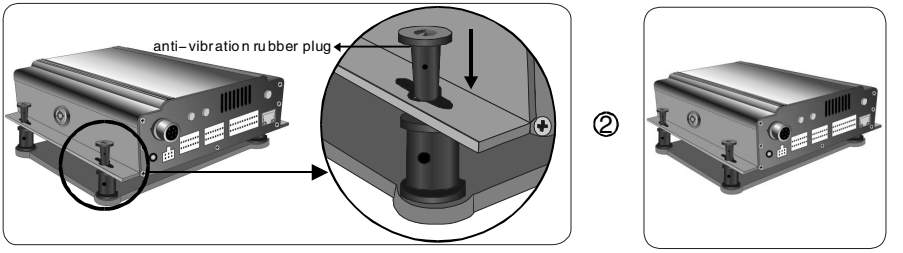
How to mount the DVR?

1)Firstly, fit the long screw bolts into the mounting plate(smooth face up)，and then fix the plate in the place you like with screws. After that, put the anti–vibration rubber cushion and install the DVR on the mounting plate. Please refer to picture 1.

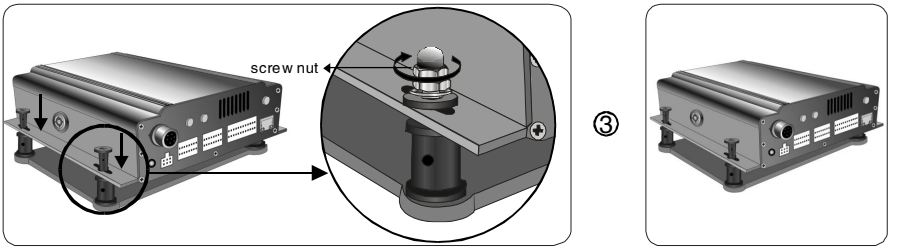


①

1.Put the long screw bolts into the mounting plate with the plate's smooth face upturned, mount the plate in the place wanted with screws, then put anti–vibration rubber cushions on the bolts and lay the DVR on it. See picture 1.



2. Insert the anti–vibration rubber plugs into the rubber cushions. See picture 2.



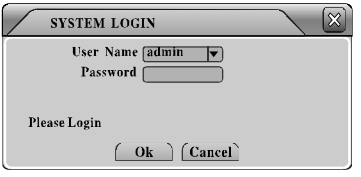
3. Add metal gasket and screw nuts, whirl the nuts clockwise to tighten the DVR onto the mounting plate. See Picture 3. Installation done!

4.Mounting done!

Menu Introduction

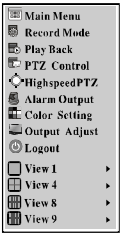
Operation Instructions

1.System Login



You will be required to enter the Password while trying to access the setup menu. Initially, there are three users from three groups: "admin", "guess", and "default", and all three users have no passwords. The supper user "admin" is able to add, modify or delete groups or other user accounts, change the passwords, and even define the "Authority" of other users in the setup menu.

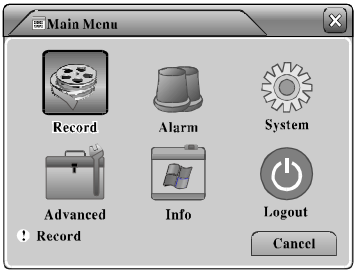
2.Shortcut Menu



Right click the mouse after you enter "Preview Mode", a shortcut menu will pop out as shown; from here you can go to Main Menu, Record Mode, Play Back, PTZ Control, High –Speed PTZ, Alarm Output, Color Setting, Output Adjust, or Logout setup pages.

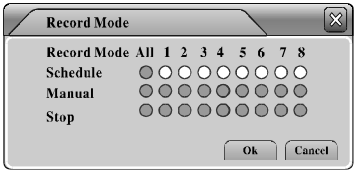
2.1 Main Menu

Click Main Menu in shortcut menu and go to "Main Menu" directly as shown;



2.2 Record Mode

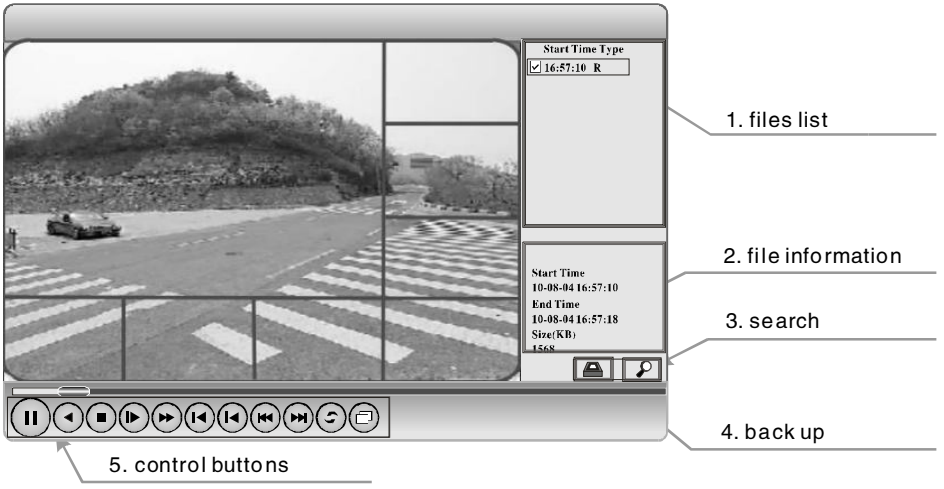
Click Record Mode in shortcut menu and go to "Record Mode" setup page as shown;



Schedule: Start recording according to configuration;
Manual: Start recording regardless of configuration;
Stop: Stop recording.
Note: the small circle would turn white when selected.

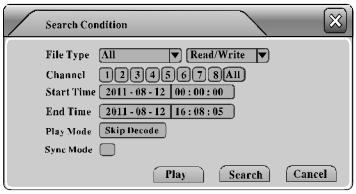
2.3 Playback

Click Play Back in shortcut menu and go to "Playback" interface as shown;



Button	Function	Button	Function	Button	Function
	play/pause		backward		stop
	slow play		fast play		previous frame
	next frame		previous file		next file
	circulation		full screen		

2.3.1 File Searching



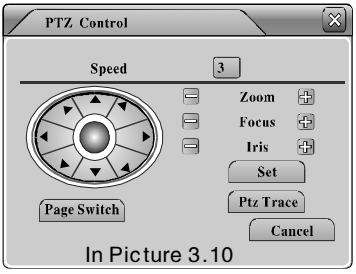
Click , the "Search Condition" dialog box will pop out; set the search conditions and start to search.

2.3.2 File Backup

Click to back up recorded video files, please refers to 3.4 "Backup".

2.4 PTZ Control

Click PTZ Control in shortcut menu and go to "PTZ Control" page as shown;

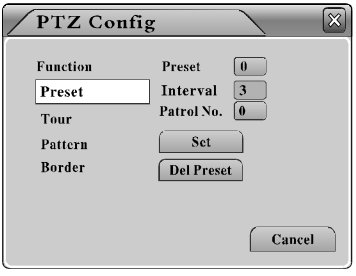


In Picture 3.10

Here you can adjust "Speed", "Zoom", "Focus", "Iris", Change the direction, Check "PTZ Trace" or do more by clicking Page Switch to go to other pages.

Note: please make sure the PTZ has been correctly connected, and all parameters properly set in PTZ Config (see page x) in advance.

Click Set , you will go to "PTZ Config" page as shown;



Here you can modify the settings of "Preset", "Tour", "Patter", and "Border".

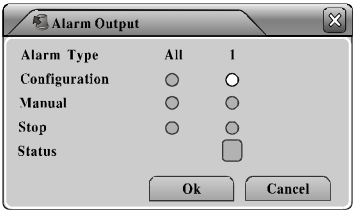
2.5 High Speed PTZ

Click HighspeedPTZ in shortcut menu, the camera which has been connected to PTZ will be shown in full screen; you can change the direction of the PTZ by clicking the mouse or zoom in/out the image by rotating the mouse.

Note: Please make sure the PTZ connected supports high–speed operation.

2.6 Alarm output

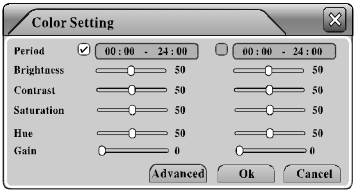
Click Alarm Output in shortcut menu and go to "Alarm Output" setup page as shown;



Configuration: Alarm on according to configuration;
Manual: Open Alarm output regardless of configuration;
Stop: Close Alarm output.
Note: the small circle would turn white when selected.

2.7 Color Setting

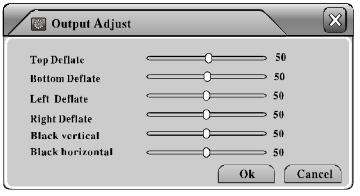
Click Color Setting in shortcut menu and go to "Color Setting" page as shown;



Here you can adjust the Brightness, Contract, Saturation, Hue, and Gain of the image. You can set two different groups of settings for different time period.

2.8 Output Adjust

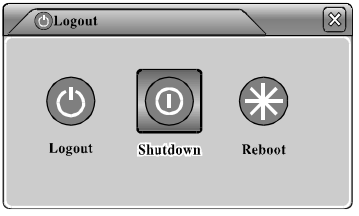
Click Output Adjust in shortcut menu and go to "Output Adjust" page as shown;



Move the Horizontal Scroll Bars to adjust the "Top Deflate", "Bottom Deflate", "Left Deflate" and "Right Deflate" of video output.

2.9 Logout

Click Logout in shortcut menu, the "Logout" dialog box will pop out as shown;



Logout: exit "Logout" menu;Shutdown: Turn off the DVR;Reboot: Restart the DVR.

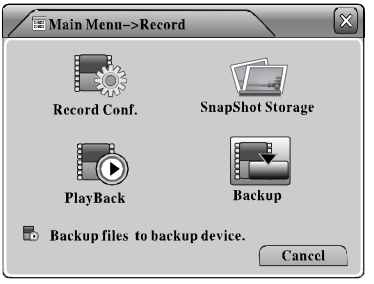
3.Main Menu

Click Main Menu in shortcut menu or press "Menu" on IR remote control; there are six submenu items: Record, Alarm, System, Advanced, Info and Logout; see menu navigation as follows;

Record	Record Conf.	Set the recording configuration, recording type, recording time section
	SnapShot Conf.	Set the snapshop configuration, snapshop type, snapshop time section
	playback	Set recording look–up, recording play, video file storage
	backup	Detect or format backup equipment, back the selective files
Alarm	Motion detect	Set motion detect alarm channel, sensitivity, area, linkage parameters: Defending time section, alarm output, screen hint, recording, PTZ,patrol
	Video blind	Set camera mask alarm channel, sensitivity, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol
	Video loss	Set video loss alarm channel, linkage parameters: defending time section, alarm output, screen hint, recording, PTZ, patrol
	Alarm input	Set alarm input channel, equipment type, linkage parameters:defending time section, alarm output, screen hint, recording, PTZ, patrol
	Alarm output	Set alarm mode: configuration, manual, shut down
	Abnormality	Event type: No Disk; Disk Error; Disk No Space; Net Disconnection; IP Conflict;
System	General	Set system time, data format, language, hard disk full time operation, machine number, video format, output mode, summertime, stay time
	Encode	Set main(assistant)coding parameter: code mode, resolving ability, frame rate, code stream control, image quality type, code stream value, frame between value, video/audio enable
	Network Configuration	Set basic network parameters, DHCP and DNS parameters, network high speed download
	NetService	PPPOE, NTP, Email, IP purview, DDNS parameter
	GUI display	Set channel name, preview hint icon state, transparency, cover area, time title, channel time fold
	PTZ configuration	Set channel, PTZ protocol, address, baud rate, date bit, stop bit, check
	Serial port configuration (Rs232)	Set serial port function, baud rate, date bit, stop bit, check
	Tour	Set patrol mode and interval time
Advanced	Hard disk Management	Set appointed hard disk as read–write disc, read–only disc or redundant disc, clear data, resume date and so on
	User Management	Modify user, team or password. Add user or team. Delete user or team.
	Online user	Break the connection with the already login user. Lock the account after break until booting up again.
	TV adjust	Adjust TV upside, downside, nearside, starboard distance
	Automatic Management	Set automatic reboot system and automatic deleting files.
	Restore	Resume setup state: common setup, code setup, recording setup, alarm setup, network setup, network service, preview playback, serial port setup, user management
Info	Hard disk Information	Display hard disk capability and recording time
	Codestream Statistics	Display code stream information
	Log Information	Clear all log information according to the log video and time
	Edition information	Display edition information
Logout		Logout, shut down or reboot

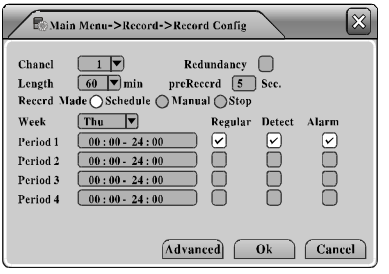
3.1 Record

There are 4 submenu items under "Record": "Record Conf.", "Snapshot Storage", "Playback" and "Backup", see picture X;



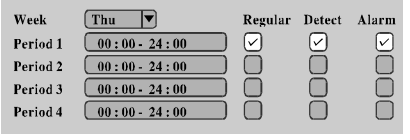
3.1.1 Record Config

Here you can configure the recording setting for every channel. You can define "Video Clip Length", "Pre-Record Time", "Record Mode", and even set "Recording Schedule" for everyday, 4 periods a day, see picture x.



Channel: Select 1 channel or all 4 channels for configuration;
Redundancy: When two storage devices are installed, select "Redundancy", the vide files will be backed up to all two disks;
Length: Define length of video clip; the default value is 60 minutes;
Pre-Record: Define pre-recording time, 1-30 seconds selectable;
Record Mode: Define "Record Mode", there are 3 options;

A.Schedule: Start recording during the time periods set in the below schedules

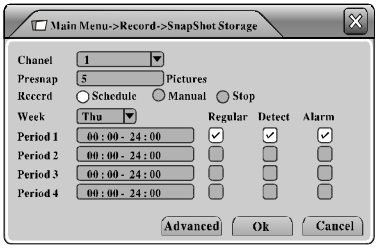


Note:
Regular: Start regular recording during the preriod set; the video file type is "R";
Detect: Start recording only when triggered by "Motion Detection", "Camera Mask", or "Video Loss" during the period set; the video file type is "M";
Alarm: Start recording while triggered by external alarm signal during the period set; the video file type is "A".

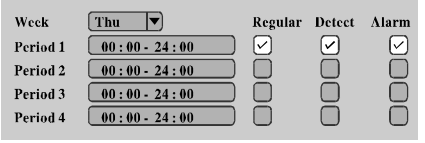
B.Manual: Start recording no matter how the schedule is set.
C.Stop: Stop recording.
Note: the configuration is only valid to the selected channel(s).

3.1.2 Snapshot Storage

Here you can configure the "Snapshot Storage" setting for every channel. Please note that there should be at least one storage device set as "Snapshot Disk" if you want to store snapshots, please refer to "HDD Manage".



Channel: Select 1 channel or all 4 channels for configuration;
Presnap: Set "Pre–snapshot Picture Number"; the DVR will take snapshots as set before recording happens;
Record: define Snapshot Modes; there are 3 options;
A. Schedule: Enable "Snapshop" function during the time periods set in the below schedules;



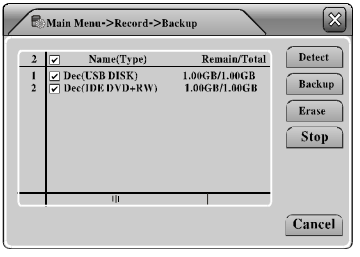
Note:
Regular: Store snapshots during the period set when "Regular" recording is happening;
Detect: Store snapshots during the period set when "Detect" recording is happening, which are triggered by "Motion Detect", "Camera Mask" or "Video Loss";
Alarm: Store snapshots during the period set when "Alarm" recording is happening, which are triggered by external alarm signal;
Manual: Enable "Snapshot" function in any cases;
Stop: Disable "Snapshot" function in any cases.

3.1.3 Playback

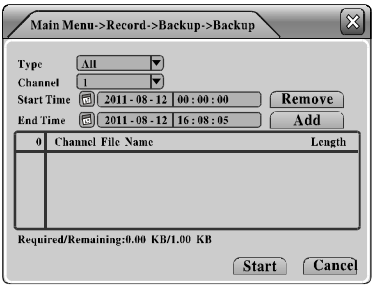
Refer to 2.3 "Playback".

3.1.4 Backup

Here you can back up recorded video files to external storage device, either a SD card or a Hard Drive. Please make sure you have connected the storage devices to the DVR in advance.



Click "Detect" to search Storage Devices, Select one disk for video backup;

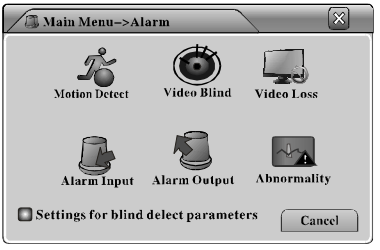


Click "Backup" to go to the next page to Choose "File Type", "Channel", "Start Time", "End Time", "Backup Format" as shown, and then click "Start" to back up files.

Tip: you can also do other operation while Video Backup is being processed.

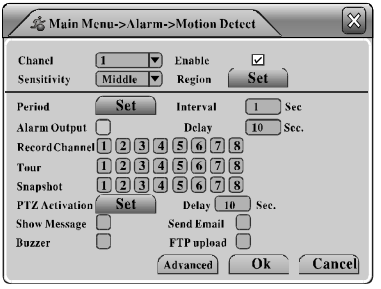
3.2 Alarm

There are 6 submenu items under "Alarm": "Motion Detect.", "Video Blind", "Video Loss" and "Alarm Input", "Alarm Output" and "Abnormality" , see picture X;



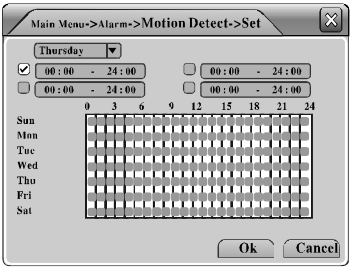
3.2.1 Motion Detect

Here you can configure the "Motion Detect" alarm setting; when motions are detected, the alarm would be activated;



Channel: Select 1 channel or all 4 channels for configuration;
Enable: Enable/Disable "Motion Detect" function;
Sensitivity: Select "Sensitivity" Level; there are 6 options;
Region: Set "Motion Detect" area, see picture X;

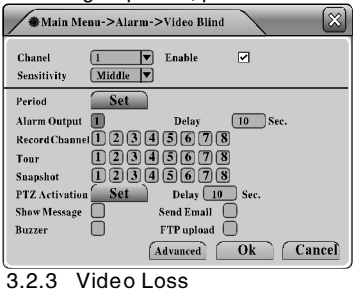
Period: Set "Motion Detect" schedules; you can set maximum 4 schedules for everyday, 4 periods a day, see picture x.



Interval: Set "Motion Detect Interval"; only one motion can be detected during the set interval;
Alarm output: Start the external alarm equipment which is connected to Alarm output once motions are detected;
Alarm Delay: Set "Alarm" signal duration;
Record Channel: The selected channel (s) would start recording when motions are detected;
Tour: The selected channel (s) will be shown in full screen in turn, when motions are detected, refers to Main Menu>System>Tour for tour interval setting;
Snapshot: The selected channel (s) would take snapshots when motions are detected;
PTZ Activation: Activate the PTZ equipment when motions are detected; the PTZ equipment would work as set, refer to 3.3.6;
Record Delay: Set "Record Delay Time" after alarm ends;
Shown Message: When motions are detected, the alarm dialog box would pop out;
Send Email: When a motion is detected, the DVR would send an email to the user, refer to 3.3.4 for email setting;
Buzzer: open the buzzer when motions are detected.

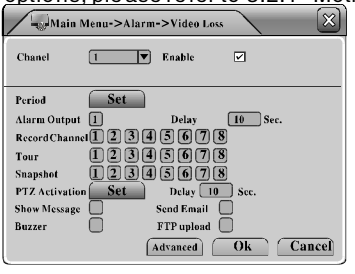
3.2.2Video Blind

Here you can configure "Video Blind" Alarm Settings; when the image is influenced by the enviroment or by human behavior, the alarm would be activated. For settings of linkage options, please refer to 3.2.1 "Motion Detect";



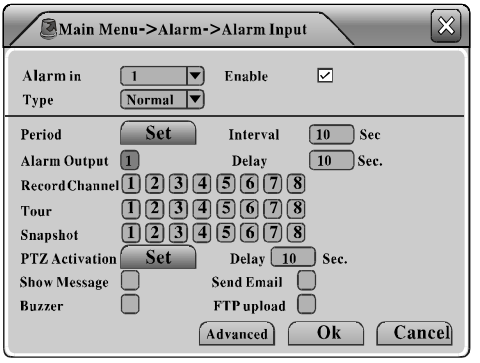
3.2.3 Video Loss

Here you can configure "Video Loss" alarm settings; when the video input signal is lost on the selected channel (s), the alarm would be activated. For settings of linkage options, please refer to 3.2.1 "Motion Detect";



3.2.4 Alarm Input

The DVR supports 4 alarm inputs, here you can configure the linkage options and tell the DVR what to do when alarm input signal detected. For settings of linkage options, please refer to 3.2.1 "Motion Detect";

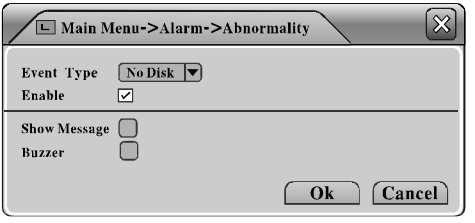


3.2.5 Alarm Output

Please refer to 2.6.

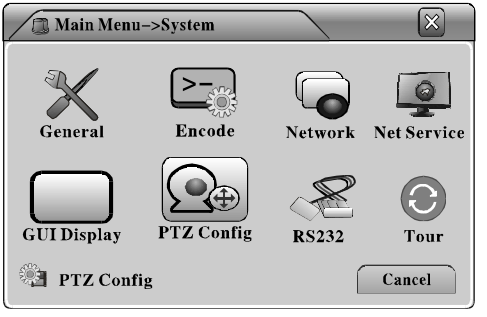
3.2.6 Abnormality

When it is set in this option, the DVR will analyze the hardware and software and react to the abnormal phenomena, show the alarm dialog box or open the buzzer;



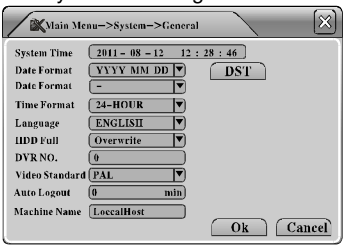
3.3 System

There are 8 submenu items under "System": "General", "Encode", "Network", "Net Service" and "GUI Display", "PTZ Config.", "RS232" and "Tour", see picture;



3.3.1 General

Here you can configure "General Settings" for the DVR system;



Menu Language: 14 languages optional, English, French, Portugueses, Russian, Italian, S-Chinese, T-Chinese, Spanish, Thai, Greek, Japanese, German, and Polish;

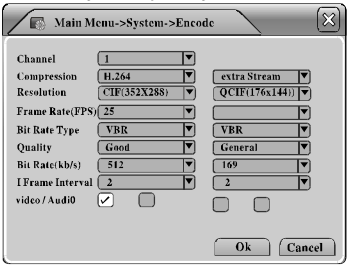
HDD Full: Memory Storage Modes; "Stop When Full" or "Overwrite When Full";

Video Standard: PAL or NTSC;

Auto Logout: Set menu auto log out time; "0" means "never logout automatically".

3.3.2 Encode

Here you can set video/ audio "Encode" parameters. There are 2 groups of "Encode" Settings; Generally speaking, the first group is for high quality local video storage and the other group called "Extra Stream" is for remote video transmission which is relatively low quality so as to ensure the fluency of the video stream;



Channel: Select 1 channel or all 4 channels for "Encode" settings;

Compression: Compression format; the default format is H.264;

Resolution: Video resolution, D1/ HD1/ CIF/ QCIF adjustable;

Frame Rate: Adjustable; Maximum Frame Rate: 25FPS (NTSC) or 30FPS (PAL);

Bit Rate Type: VBR (Variable Bit Rate) or CBR (Constant Bit Rate) selectable;

Quality: Video Quality, 6 levels adjustable;

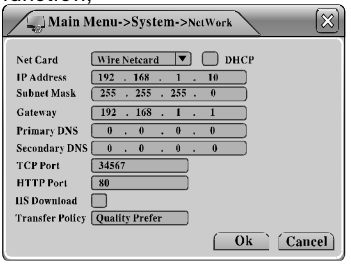
Bit Rate: select a bit rate value once "CBR" Bit Rate Type is selected;

D1 (512~2560kbps)/ HD1 (384~2048kbps)/ CIF (64~1024kbps)/ QCIF (64~512kbps);

Video/ Audio: Record "Video" or "Audio", or both.

3.3.3 Network

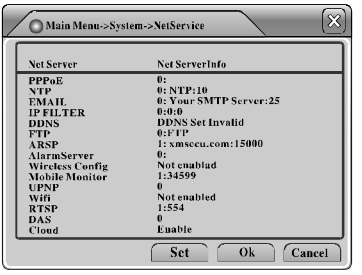
Here you can configure "Wired Network" settings if you need to use the internet function;



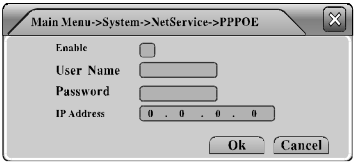
Net Card: Wire Netcard;
DHCP Enable: Automatically Attain IP Address (Not recommended);
Note: please make sure the DHCP Server is built in advance if you need to use this function.
IP Address: set IP address for the device;
Media Port: Set "TCP Port" for the device;
HTTP Port: Set HTTP Port for the device;
HS Download: High Speed Download via the Internet;
Transfer Policy: Transfer Priority; Quality Preferred, Fluency Preferred or Adaptive;

3.3.4 Net Service

Here you can configure Advanced Network Settings for the device. Double click each item and the corresponding dialog box would pop out.

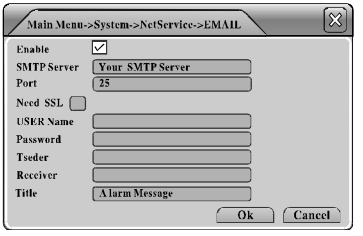


A. PPPoE



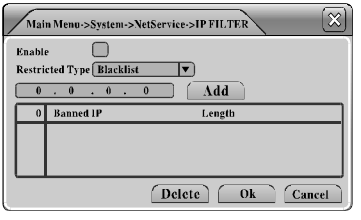
Enter the User Name and Password provided by ISP (Internet Service Provider), reboot the DVR, it will build the connection to the Internet via PPPoE and attain the IP address automatically.

B. EMAIL



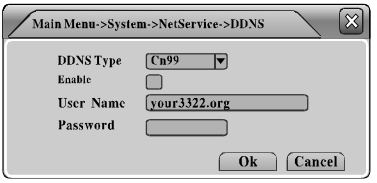
Enter the email information here, and the DVR will be able to send emails with alarm information or snapshot to the appointed receivers (maximum 3 email addresses) when alarms happen.

C. IP FILTER



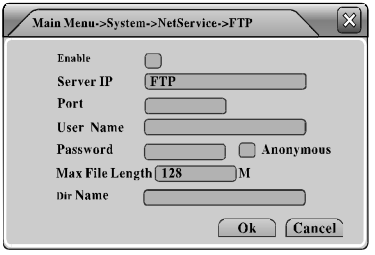
You can put IP addresses in the "Blacklist" or "White list". IP Addresses in the "White List" are able to access the device; on the contrary, IP Addresses in the Black List will be blocked; you can set maximum 64 IP Addresses.

D. DDNS



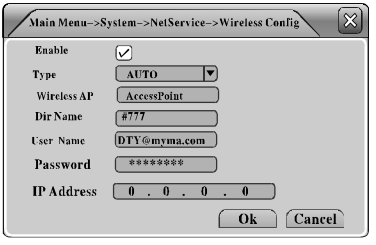
DDNS is short for "Dynamic Domain Name Server". If "DDNS" setting is successfully configured, you can visit the Device via the Domain Name with the IE Browser;
DDNS Type: Select DDNS Type;
Domain Name: Enter the DDNS domain name;
User Name/ Password: Enter the DDNS Use Name and Password

E. FTP



FTP is for uploading video files or snapshot to the appointed FTP Server when alarms happen, or recording, snapshot triggered by alarms.
Server IP: Enter the IP address of FTP Server;
Port: Enter the Domain port of FTP Server;
User Name: Enter User Name;
Password: Enter User Password;
Max File Length: Set Max File Length for unloadng;
DirName: File Directory for uploading.

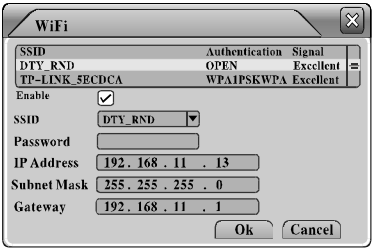
F. Wireless Config



The DVR supports remote monitoring via 3G network, here you can configure the 3G Settings;
Type: Select 3G "Dial Mode";
Wireless AP: Enter 3G Access Point;
Dial Number: Enter 3G Dial Number;
User Name: Enter 3G User Name;
Password: Enter 3G User Password.

Note:
1.Make sure there is a 3G module built–in the DVR;
2.Please ask your 3G Service Provider for the above parameters; for example, the settings for China Unicom are as follows;
Wireless AP: 3gnet
Dial Number: *99#
User Name: no
Password: no

G. Wifi

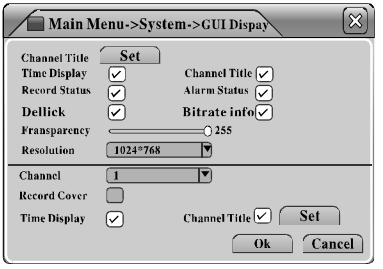


The DVR supports "remote monitoring" via Wifi network, here you can configure the "Wifi" Settings;
Search: Search Wireless Network in local area, and then double click to choose one of them;
Password: Enter the "Password" of the Wireless Router;
IP Address: Enter the IP address of the Device;
Subnet: Enter the Subnet Mask of the Device;
Gateway: Enter the Gateway of the Device.

Note：Please make sure there is a Wifi Module built-in the DVR before you use this function.

3.3.5 GUI Display

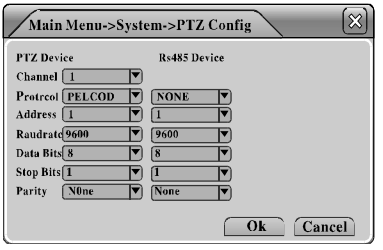
Here you can configure the settings for OSD Items, Transparency, Resolution, and so on.



Car Info: Enter an ID for the Device;
Channel Title: Enter a title name for each channel;
[Choose OSD items] Click the square on the right to show/ hide the corresponding item, such as "Time Display", "Channel Title", "Record Status", "Alarm Status" and so on;
Transparency: Move the horizontal scroll bar to adjust the transparency of the Menu interface;
Resolution: Set video output resulotion;
Channel: Select a channel for advanced settings;

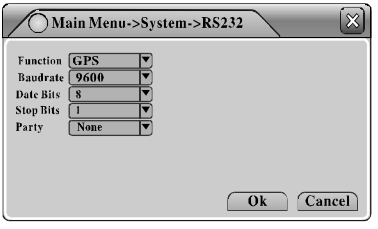
Region Cover: Set the "Cover Area", you can set maximum 4 "Cover Area" of each channel;
Time Display/ Channel Title: Click the square on the right and click "SET" to adjust the position of "Time Display" or "Channel Title".

3.3.6 PTZ Config



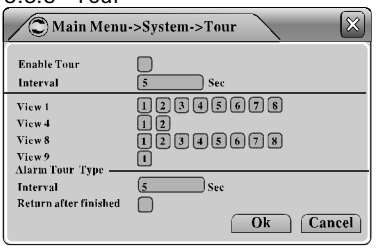
Channel: Select the video channel which is connected to PTZ device;
Protocol: Set the "Protocol" of the PTZ device;
Adress: Enter the "Address" of the PTZ device;
Baudrate: Select the "Baudrate" used by the the PTZ device;
Data Bits: Select "Data bits" for the PTZ device;
Stop Bits: Set "Stop Bits" for the PTZ device;
Parity: Set "Pairty" for the PTZ device, "Odd", "Even", "Mark", "Space" or "None".

3.3.7 Rs232



In general, we use "RS232" interface for GPS function only. Select "GPS" at the first item, enter Baudrate "9600", Data Bits "8", Stop Bits "1" and Select Parity "None", the GPS will work.
Note: the setting is only valid for the models which support GPS function.

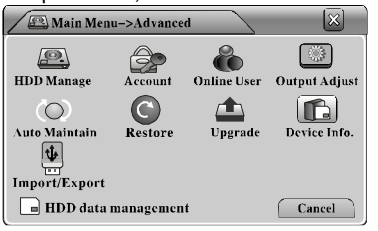
3.3.8 Tour



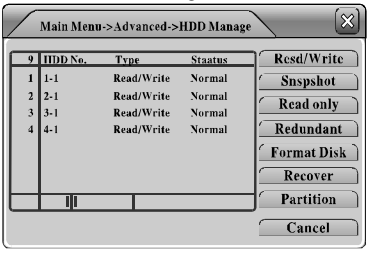
Here you can configure the "Tour" settings, for example, if interval is set "5" seconds, CH1, CH2, CH3 are selected, then the image would cycle among the 3 channels, tour from one to another every 5 seconds; and you can also set "Interval" for "Alarm Tour" Here.

3.4 Advanced

There are 8 submenu items under "Advanced": "HDD Manage", "Account", "Online User", "Output Adjust", "Auto Maintain", "Restore", "Upgrade" and "Device Info", see picture X;



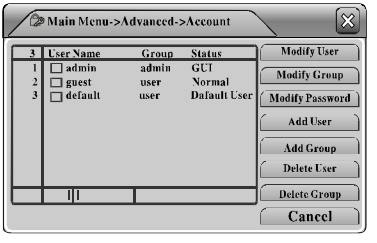
3.4.1 HDD Manage



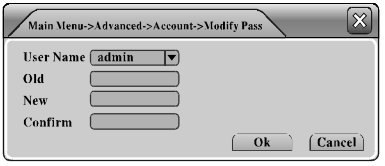
Here you can manage all Memory Storage Devices. All devices (HDD, USB Disk or SD card) information is shown in the form on the left, including "HDD No.", "Type", "Status", and so on.
You can define a disk as "Read & Write Disk", "Snapshot Disk", "Read only Disk", or "Redundant Disk", you can "Format" the Disk, "Recover" the Disk, or "Partition" the disk with those buttons on the right side.

Note: Make sure at least there is one "Read Write Disk".

3.4.2 Account

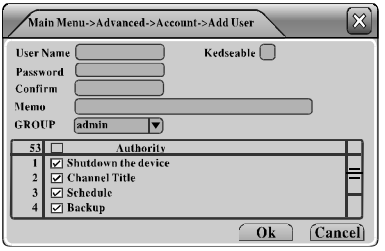


Here you can manage all User Accounts. All User Information is shown in the form on the left, including "User Name", "User Group", and "User Status".
You can "Modify User", "Modify Goup", "Modify Password", "Add Group", "Delete User", "Delete Group", or "Update User" with those buttons on the right side.

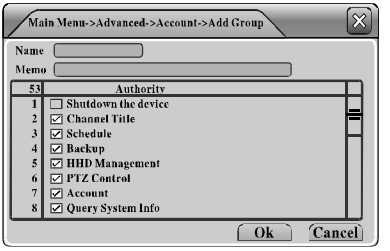


【Modify Password】

【Delete Group】

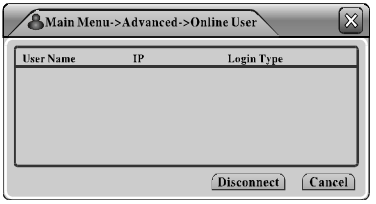


【Add User】



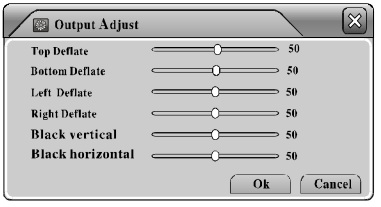
【Add Group】

3.4.3 Online User



Here you can see all online network users who are visiting the DVR devices. Select one online user, click "Disconnect", the connection will be cu, and the user will be blocked until the device boot up next time.

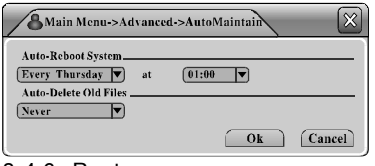
3.4.4 Output Adjust



Please refer to 2.8 (Shortcut Menu>Output Adjust).

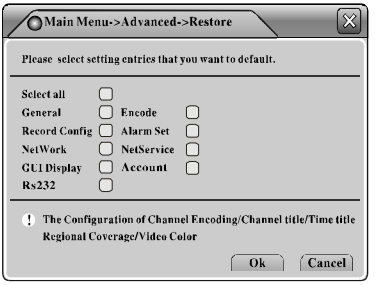
3.4.5 Auto Maintain

Here you can set "Auto Reboot" and "Auto Delete Files" time for the device.

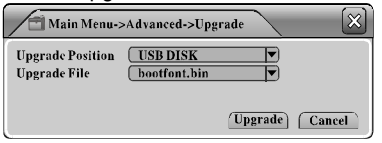


3.4.6 Restore

Here you can restore all settings to Factory Settings. Select the corresponding items, and click "OK" to execute.

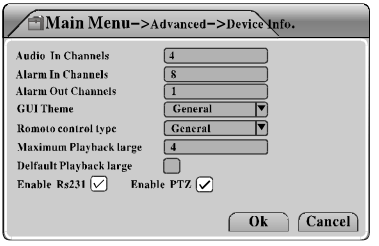


3.4.7 Upgrade



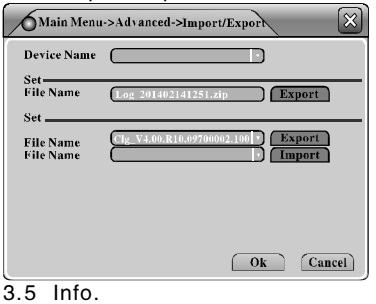
Plug in a USB disk with Upgrade Firmware, the DVR will detect the upgrade file automatically. Navigate to this page, and click "Upgrade" to execute. The DVR will reboot automatically when the "Upgrade" is done.

3.4.8 Device Info.

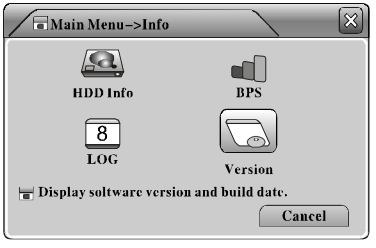


Here you can see the "Device information" of the DVR, including "Audio in Channels", "Alarm in Channels", "Alarm out Channels", "GUI Theme" and so on.

3.4.9 Import/Export



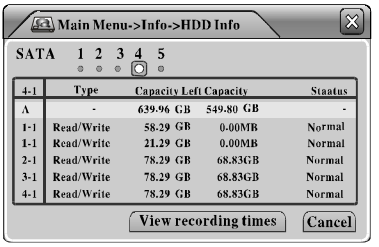
3.5 Info.



There are 4 submenu items under "Info.": "HDD Info", "BPS", "LOG" and "Version", see picture;

3.5.1 HDD Info

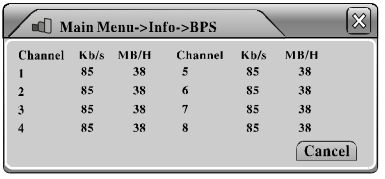
Here you can see information of all Storage Devices, including "Disk Type", "Capacity", "Left Capacity", and "Status".


Main Menu->Info->HDD Info
SATA 1 2 3 4 5
4-1 Type Capacity Left Capacity Staatus
A - 639.96 GB 549.80 GB -
1-1 Read/Write 58.29 GB 0.00MB Normal
1-1 Read/Write 21.29 GB 0.00MB Normal
2-1 Read/Write 78.29 GB 68.83GB Normal
3-1 Read/Write 78.29 GB 68.83GB Normal
4-1 Read/Write 78.29 GB 68.83GB Normal
View recording times
Cancel

Note: If the disk is in good condition, a circle "O" will be shown on the top correspondingly; if something wrong with the disk, a wrong mark "X" will be shown; if no disk connected, then a dash mark "–".

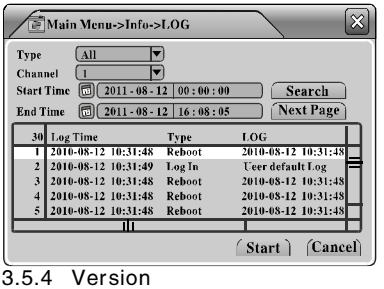
3.5.2 BPS

Here you can see real–time "Bit Stream" information (Kb/S) of each channel and "Memory Take–up Rate" (MB/H).



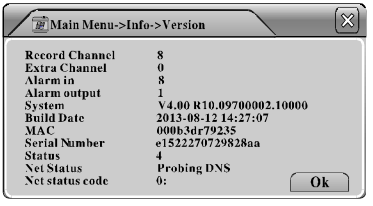
3.5.3 LOG

Here you can check all "Even Log Information" of this device, including "Log Time", "Log Type", and "Log Detailed Info".

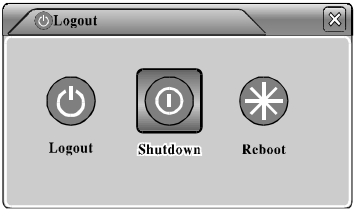


3.5.4 Version

Here you can check Hardware and Firmware information of the Device.



3.6 Log Out



Please refer to 2.9 (Shortcut Menu>Logout).

Mouse Operation

VR8808 Series supports Mouse Operation, here is the operation instruction.

Operation	Function
Double Click	Double click one item to play in the files list.
	Double click one channel to show in full screen or 1/4 screen
Left Click	Select one item
Right Click	Pop out Shortcut Menu
Roll the wheel	Tour from one image to another at Preview Page

Preview Page

1		Record Icon	2		Audio output Icon
3		Motion Detect Icon	4		Snapshot Icon
5	CAM01	Channel ID	6		Video Loss Icon
7	2012-05-21 11:16:02 Mon	Date/Time Stamp			

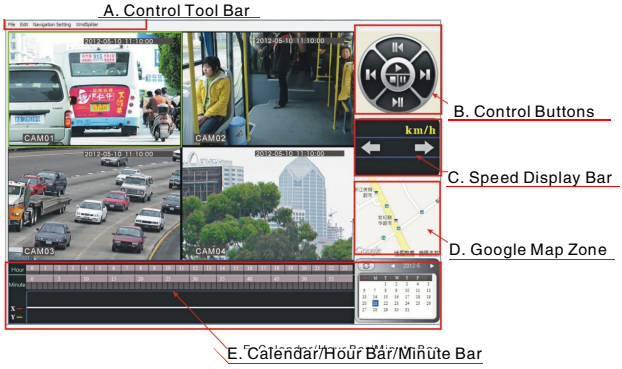
FAQ

1. Can not boot up normally
Possible reasons are as follows;
A.The power supply is not right;
B.The connection of power cable is bad;
C.Error happened during firmware upgrade;
D.The Hard Drive is broken;

2. Crash or reboot automatically
Possible reasons are as follows;
A.The input power voltage is not stable or too low;
B.The Hard Drive is broken;
C.Bad heat radiator or too much dust or bad running circumstance;
D.Some problem with the DVR hardware.

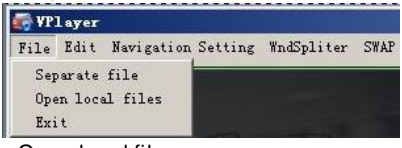
3. Can not detect Hard Drive
Possible reasons are as follows;
A.The Hard Drive is broken;
B.The Hard Driver is not properly connected;
C.The SATA connector on the main PCB board is damaged.
4. No video output
Possible reasons are as follows;
A.Video output cable is broken or not properly connected;
B.There is no video input signal or the signal is too weak;
C.The image brightness is set ?0?;
D.TV channel mismatched; please switch the monitor to AV channel;
5. No color/ distorted Image
Possible reasons are as follows;
A.The color settings of the monitor is not right;
B.The video signal is too weak after long distance transmission;
C.TV standard mismatched; check if DVR, camera, and monitor are in the same TV standard, PAL or NTSC;

DiskPlayer



A.Control Tool Bar

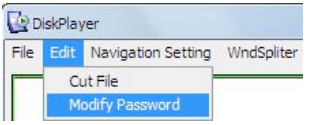
1.File



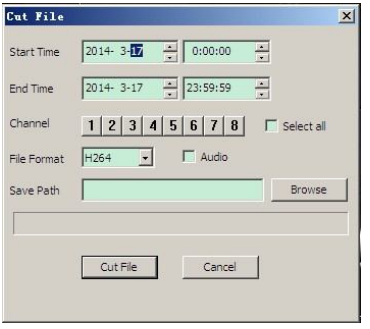
a.Open local files

b.Exit
Exit DiskPlayer.

2.Edit

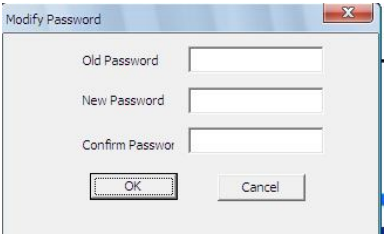


a.Cut file

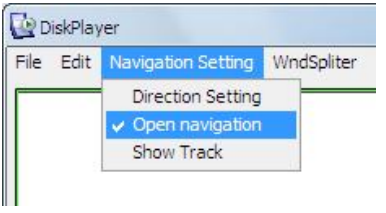


Note: here you can back up video to your computer, select "Start Time", "End Time", "Channel", and a path for saving files.

b .Modify Password



3.Navigation Setting



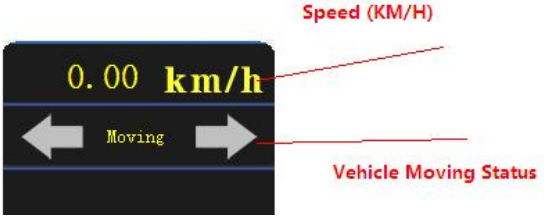
Select "Open Navigation", you will see Google Map at the bottom right showing the position of the vehicle.

B.Control Buttons

Please refer to the form for function of each button;

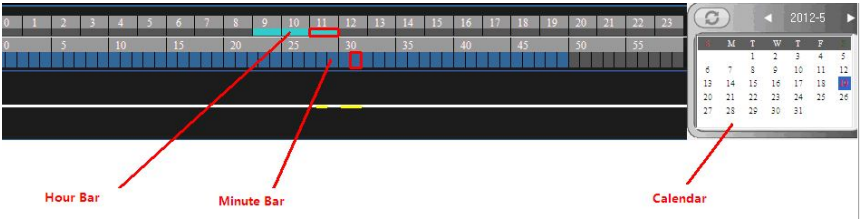
Button	Fuction	Button	Fuction
	Slow x1/x2/x3/x4		No Use
	Fast x1/x2/x3/x4		Play Frame by Frame
	Play		Pause
	Stop		

C.Speed Display Bar



D.Google Map Zone
If the "Open Navigation" is selected, you will be able to see the vehicle position, while playing video.

E.Calendar/Hour Bar/Minute Bar



Double click the number in Calendar, the Hour bar and the Minute Bar will change correspondingly.

1 . Red numbers in Calendar means there was recording during the corresponding day;
2 . Green in Hour Bar means there was recording during the corresponding hours; Blue in Minute Bar means there was recording during the corresponding minute.

GUARANTEE CARD

ITEM:	MODEL:	ITEM NO.:
DATE OF PURCHASE:		
CLIENT NAME:		
CONTACT ADDRESS:		
CONTACT TEL		

IMPORTANT NOTICE

1. Please fill out the Guarantee Card strictly according to the facts;
2. Only will this Guarantee Card be valid when sealed by our franchisers;
3. We provide 1 year warranty to the product. If product fails to work properly under warranty period, our factory will help repair it free of charge;
4. This limited warranty does not apply to:
   (1). Damage to a product that is out of warranty;
   (2). Cosmetic damage, such as scratches, nicks and dents;
   (3). Damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature;
   (4). Damage caused by service performed by anyone who is not an authorized service provider;
   (5). Damage to a product that has been modified or altered without permission;
   (6). Damage to a product that has been used in damp, high/low temperature or any other harsh environments;
   (7). Any other damages that are not caused by our factory.
5. Please keep the Guarantee Card properly. We reserve the right to Refuse warranty in case of no Guarantee Card provided.